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| <input type="checkbox"/> | Gene ID | Mapped IDs | Gene Name Gene Symbol Ortholog | PANTHER Family/Subfamily | PANTHER Protein Class |
|--------------------------|---|----------------------------|---|--|---|
| <input type="checkbox"/> | 1. HUMAN HGNC=12833 UniProtKB=P13010 | P13010 | X-ray repair cross-complementing protein 5 XRCC5 ortholog | X-RAY REPAIR CROSS-COMPLEMENTING PROTEIN 5 (PTHR12604:SF4) | DNA helicase |
| <input type="checkbox"/> | 2. HUMAN HGNC=28833 UniProtKB=Q9NTK5 | Q9NTK5 | Obg-like ATPase 1 OLA1 ortholog | OBG-LIKE ATPASE 1 (PTHR23305:SF11) | G-protein |
| <input type="checkbox"/> | 3. HUMAN HGNC=9355 UniProtKB=P30044 | P30044 | Peroxisome protein 5, mitochondrial PRDX5 ortholog | PEROXIREDOXIN-5, MITOCHONDRIAL (PTHR10430:SF16) | - |
| <input type="checkbox"/> | 4. HUMAN HGNC=14678 UniProtKB=Q96CX2 | Q96CX2 | BTB/POZ domain-containing protein KCTD12 KCTD12 ortholog | BTB/POZ DOMAIN-CONTAINING PROTEIN KCTD12 (PTHR14499:SF29) | enzyme modulator |
| <input type="checkbox"/> | 5. HUMAN HGNC=5244 UniProtKB=P38646 | P38646 | Stress-70 protein, mitochondrial HSPA9 ortholog | STRESS-70 PROTEIN, MITOCHONDRIAL (PTHR19375:SF184) | - |
| <input type="checkbox"/> | 6. HUMAN HGNC=3594 UniProtKB=P49327 | P49327 | Fatty acid synthase FASN ortholog | FATTY ACID SYNTHASE (PTHR43775:SF7) | - |
| <input type="checkbox"/> | 7. HUMAN HGNC=9530 UniProtKB=P25786 | P25786 | Proteasome subunit alpha type-1 PSMA1 ortholog | PROTEASOME SUBUNIT ALPHA TYPE-RELATED (PTHR11599:SF12) | protease |
| <input type="checkbox"/> | 8. HUMAN HGNC=10363 UniProtKB=P18124 | P18124 | 60S ribosomal protein L7 RPL7 ortholog | 60S RIBOSOMAL PROTEIN L7 (PTHR11524:SF12) | ribosomal protein |
| <input type="checkbox"/> | 9. HUMAN HGNC=9723 UniProtKB=P11216 | P11216 | Glycogen phosphorylase, brain form PYGB ortholog | GLYCOGEN PHOSPHORYLASE, BRAIN FORM (PTHR11468:SF3) | - |
| <input type="checkbox"/> | 10. HUMAN HGNC=9559 UniProtKB=Q13200 | Q13200 | 26S proteasome non-ATPase regulatory subunit 2 PSMD2 ortholog | 26S PROTEASOME NON-ATPASE REGULATORY SUBUNIT 2 (PTHR10943:SF15) | enzyme modulator |
| <input type="checkbox"/> | 11. HUMAN HGNC=3719 UniProtKB=Q00688 | Q00688 | Peptidyl-prolyl cis-trans isomerase FKBP3 FKBP3 ortholog | PEPTIDYL-PROLYL CIS-TRANS ISOMERASE FKBP3 (PTHR46493:SF1) | - |
| <input type="checkbox"/> | 12. HUMAN HGNC=10381 UniProtKB=P04843 | P04843 | Dolichyl-diphosphooligosaccharide-protein glycosyltransferase subunit 1 RPN1 ortholog | DOLICHYL-DIPHOSPHOOLIGOSACCHARIDE-PROTEIN GLYCOSYLTRANSFERASE SUBUNIT 1 (PTHR21049:SF0) | glycosyltransferase |
| <input type="checkbox"/> | 13. HUMAN HGNC=4162 UniProtKB=P41250 | P41250 | Glycine--tRNA ligase GARS ortholog | GLYCINE--TRNA LIGASE (PTHR10745:SF0) | aminoacyl-tRNA synthetase |
| <input type="checkbox"/> | 14. HUMAN HGNC=6715 UniProtKB=Q14767 | Q14767 | Latent-transforming growth factor beta-binding protein 2 LTBP2 ortholog | LATENT-TRANSFORMING GROWTH FACTOR BETA-BINDING PROTEIN 2 (PTHR24034:SF49) | annexin calmodulin cell adhesion molecule extracellular matrix glycoprotein extracellular matrix structural protein signaling molecule |
| <input type="checkbox"/> | 15. HUMAN HGNC=7160 UniProtKB=P50281 | P50281 | Matrix metalloproteinase-14 MMP14 ortholog | MATRIX METALLOPROTEINASE-14 (PTHR10201:SF24) | metalloprotease |
| <input type="checkbox"/> | 16. HUMAN HGNC=18429 UniProtKB=Q14914 | Q14914 | Prostaglandin reductase 1 PTGR1 ortholog | PROSTAGLANDIN REDUCTASE 1 (PTHR43205:SF31) | dehydrogenase reductase |
| <input type="checkbox"/> | 17. HUMAN HGNC=8891 UniProtKB=P52209 | P52209 | 6-phosphogluconate dehydrogenase, decarboxylating PGD ortholog | 6-PHOSPHOGLUCONATE DEHYDROGENASE, DECARBOXYLATING (PTHR11811:SF53) | dehydrogenase |
| <input type="checkbox"/> | 18. HUMAN HGNC=1620 UniProtKB=P40227 | P40227 | T-complex protein 1 subunit zeta CCT6A ortholog | T-COMPLEX PROTEIN 1 SUBUNIT ZETA (PTHR11353:SF54) | chaperonin |
| <input type="checkbox"/> | 19. HUMAN HGNC=1481 UniProtKB=P04632 | P04632 | Calpain small subunit 1 CAPNS1 ortholog | CALPAIN SMALL SUBUNIT 1 (PTHR46735:SF1) | - |
| <input type="checkbox"/> | 20. HUMAN HGNC=2898 UniProtKB=P09622 | P09622 | Dihydrolipoyl dehydrogenase, mitochondrial DLD ortholog | DIHYDROLIPOYL DEHYDROGENASE, MITOCHONDRIAL (PTHR22912:SF151) | dehydrogenase oxidase reductase |
| <input type="checkbox"/> | 21. HUMAN HGNC=1615 UniProtKB=P78371 | P78371 | T-complex protein 1 subunit beta CCT2 | T-COMPLEX PROTEIN 1 SUBUNIT BETA (PTHR11353:SF23) | chaperonin |

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|--------------------------|-----|--|------------|---|--|---|
| <input type="checkbox"/> | 22. | HUMAN HGNC=544 UniProtKB=P08133 | P08133 | Annexin A6 ANXA6 ortholog | ANNEXIN A6 (PTHR10502:SF177) | - |
| <input type="checkbox"/> | 23. | HUMAN HGNC=8766 UniProtKB=Q8WUM4 | Q8WUM4 | Programmed cell death 6-interacting protein PDCD6IP ortholog | PROGRAMMED CELL DEATH 6-INTERACTING PROTEIN (PTHR23030:SF22) | transmembrane receptor regulatory/adaptor prot |
| <input type="checkbox"/> | 24. | HUMAN HGNC=823 UniProtKB=P25705 | P25705 | ATP synthase subunit alpha, mitochondrial ATP5F1A ortholog | ATP SYNTHASE SUBUNIT ALPHA, MITOCHONDRIAL (PTHR43089:SF7) | ATP synthase DNA binding protein anion channel hydrolase ligand-gated ion channel |
| <input type="checkbox"/> | 25. | HUMAN HGNC=11845 UniProtKB=Q9Y490 | Q9Y490 | Talin-1 TLN1 ortholog | TALIN-1 (PTHR19981:SF7) | - |
| <input type="checkbox"/> | 26. | HUMAN HGNC=561 UniProtKB=O95782 | O95782 | AP-2 complex subunit alpha-1 AP2A1 ortholog | AP-2 COMPLEX SUBUNIT ALPHA-1 (PTHR22780:SF32) | transmembrane receptor regulatory/adaptor prot |
| <input type="checkbox"/> | 27. | HUMAN HGNC=9910 UniProtKB=P38159 | P38159 | RNA-binding motif protein, X chromosome RBMX ortholog | RNA-BINDING MOTIF PROTEIN, X CHROMOSOME (PTHR15241:SF68) | mRNA splicing factor |
| <input type="checkbox"/> | 28. | HUMAN HGNC=8905 UniProtKB=P36871 | P36871 | Phosphoglucomutase-1 PGM1 ortholog | PHOSPHOGLUCOMUTASE-1 (PTHR22573:SF37) | - |
| <input type="checkbox"/> | 29. | HUMAN HGNC=1623 UniProtKB=P50990 | P50990 | T-complex protein 1 subunit theta CCT8 ortholog | T-COMPLEX PROTEIN 1 SUBUNIT THETA (PTHR11353:SF78) | chaperonin |
| <input type="checkbox"/> | 30. | HUMAN HGNC=16998 UniProtKB=P49755 | P49755 | Transmembrane emp24 domain-containing protein 10 TMED10 ortholog | TRANSMEMBRANE EMP24 DOMAIN-CONTAINING PROTEIN 10 (PTHR22811:SF147) | transfer/carrier protein vesicle coat protein |
| <input type="checkbox"/> | 31. | HUMAN Ensembl=ENSG00000198211 UniProtKB=A0A0B4J269 | A0A0B4J269 | Uncharacterized protein unassigned ortholog | TUBULIN BETA-3 CHAIN (PTHR11588:SF43) | tubulin |
| <input type="checkbox"/> | 32. | HUMAN HGNC=24437 UniProtKB=Q96KP4 | Q96KP4 | Cytosolic non-specific dipeptidase CNDP2 ortholog | CYTOSOLIC NON-SPECIFIC DIPEPTIDASE (PTHR43270:SF11) | deacetylase metalloprotease |
| <input type="checkbox"/> | 33. | HUMAN HGNC=6561 UniProtKB=P09382 | P09382 | Galectin-1 LGALS1 ortholog | GALECTIN-1 (PTHR11346:SF97) | cell adhesion molecule signaling molecule |
| <input type="checkbox"/> | 34. | HUMAN HGNC=6692 UniProtKB=Q07954 | Q07954 | Prolow-density lipoprotein receptor-related protein 1 LRP1 ortholog | PROLOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 (PTHR24270:SF23) | - |
| <input type="checkbox"/> | 35. | HUMAN HGNC=12469 UniProtKB=P22314 | P22314 | Ubiquitin-like modifier-activating enzyme 1 UBA1 ortholog | SUMO-ACTIVATING ENZYME SUBUNIT 1-RELATED (PTHR10953:SF211) | ligase transfer/carrier protein |
| <input type="checkbox"/> | 36. | HUMAN HGNC=2254 UniProtKB=Q9ULV4 | Q9ULV4 | Coronin-1C CORO1C ortholog | CORONIN-1C (PTHR10856:SF10) | non-motor actin binding protein |
| <input type="checkbox"/> | 37. | HUMAN HGNC=12525 UniProtKB=O60701 | O60701 | UDP-glucose 6-dehydrogenase UGDH ortholog | UDP-GLUCOSE 6-DEHYDROGENASE (PTHR11374:SF35) | - |
| <input type="checkbox"/> | 38. | HUMAN HGNC=8723 UniProtKB=P05154 | P05154 | Plasma serine protease inhibitor SERPINA5 ortholog | PLASMA SERINE PROTEASE INHIBITOR (PTHR11461:SF274) | serine protease inhibitor |
| <input type="checkbox"/> | 39. | HUMAN HGNC=4057 UniProtKB=P11413 | P11413 | Glucose-6-phosphate 1-dehydrogenase G6PD ortholog | GLUCOSE-6-PHOSPHATE 1-DEHYDROGENASE (PTHR23429:SF0) | dehydrogenase |
| <input type="checkbox"/> | 40. | HUMAN HGNC=8907 UniProtKB=O95394 | O95394 | Phosphoacetylglucosamine mutase PGM3 ortholog | PHOSPHOACETYLGLUCOSAMINE MUTASE (PTHR45955:SF1) | - |
| <input type="checkbox"/> | 41. | HUMAN HGNC=10488 UniProtKB=P31949 | P31949 | Protein S100-A11 S100A11 ortholog | PROTEIN S100-A11 (PTHR11639:SF60) | calmodulin signaling molecule |
| <input type="checkbox"/> | 42. | HUMAN HGNC=20771 UniProtKB=P68371 | P68371 | Tubulin beta-4B chain TUBB4B ortholog | TUBULIN BETA-4B CHAIN (PTHR11588:SF247) | tubulin |
| <input type="checkbox"/> | 43. | HUMAN HGNC=9583 UniProtKB=P26599 | P26599 | Polypyrimidine tract-binding protein 1 PTBP1 ortholog | POLYPYRIMIDINE TRACT-BINDING PROTEIN 1 (PTHR15592:SF19) | - |
| <input type="checkbox"/> | 44. | HUMAN HGNC=10992 UniProtKB=P12236 | P12236 | ADP/ATP translocase 3 SLC25A6 ortholog | ADP/ATP TRANSLOCASE 3 (PTHR45635:SF13) | - |
| <input type="checkbox"/> | 45. | HUMAN HGNC=5269 UniProtKB=P61604 | P61604 | 10 kDa heat shock protein, mitochondrial HSPE1 ortholog | 10 KDA HEAT SHOCK PROTEIN, MITOCHONDRIAL (PTHR10772:SF0) | chaperonin |
| <input type="checkbox"/> | 46. | HUMAN HGNC=1617 UniProtKB=P50991 | P50991 | T-complex protein 1 subunit delta CCT4 ortholog | T-COMPLEX PROTEIN 1 SUBUNIT DELTA (PTHR11353:SF26) | - |
| <input type="checkbox"/> | 47. | HUMAN HGNC=9282 UniProtKB=P62140 | P62140 | Serine/threonine-protein phosphatase PP1-beta catalytic subunit PPP1CB ortholog | SERINE/THREONINE-PROTEIN PHOSPHATASE PP1-BETA CATALYTIC SUBUNIT (PTHR11668:SF414) | calcium-binding protein protein phosphatase |
| <input type="checkbox"/> | 48. | HUMAN HGNC=13312 UniProtKB=P78417 | P78417 | Glutathione S-transferase omega-1 GSTO1 ortholog | GLUTATHIONE S-TRANSFERASE OMEGA-1 (PTHR43968:SF5) | - |
| <input type="checkbox"/> | 49. | HUMAN HGNC=11655 UniProtKB=P17987 | P17987 | T-complex protein 1 subunit alpha TCP1 | T-COMPLEX PROTEIN 1 SUBUNIT ALPHA (PTHR11353:SF195) | chaperonin |

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| <input type="checkbox"/> | 50. | HUMAN HGNC=9256 UniProtKB=P45877 | P45877 | Peptidyl-prolyl cis-trans isomerase C PPIC ortholog | PEPTIDYL-PROLYL CIS-TRANS ISOMERASE C (PTHR11071:SF11) | - |
| <input type="checkbox"/> | 51. | HUMAN HGNC=3015 UniProtKB=Q14195 | Q14195 | Dihydropyrimidinase-related protein 3 DPYSL3 ortholog | DIHYDROPYRIMIDINASE-RELATED PROTEIN 3 (PTHR11647:SF57) | metalloprotease |
| <input type="checkbox"/> | 52. | HUMAN HGNC=9846 UniProtKB=P62826 | P62826 | GTP-binding nuclear protein Ran RAN ortholog | GTP-BINDING NUCLEAR PROTEIN RAN (PTHR24071:SF22) | small GTPase |
| <input type="checkbox"/> | 53. | HUMAN HGNC=3213 UniProtKB=P26641 | P26641 | Elongation factor 1-gamma EEF1G ortholog | ELONGATION FACTOR 1-GAMMA (PTHR43986:SF4) | - |
| <input type="checkbox"/> | 54. | HUMAN HGNC=6904 UniProtKB=P31153 | P31153 | S-adenosylmethionine synthase isoform type-2 MAT2A ortholog | S-ADENOSYLMETHIONINE SYNTHASE ISOFORM TYPE-2 (PTHR11964:SF12) | nucleotidyltransferase |
| <input type="checkbox"/> | 55. | HUMAN HGNC=16919 UniProtKB=Q99536 | Q99536 | Synaptic vesicle membrane protein VAT-1 homolog VAT1 ortholog | SYNAPTIC VESICLE MEMBRANE PROTEIN VAT-1 HOMOLOG (PTHR44054:SF1) | - |
| <input type="checkbox"/> | 56. | HUMAN HGNC=1622 UniProtKB=Q99832 | Q99832 | T-complex protein 1 subunit eta CCT7 ortholog | T-COMPLEX PROTEIN 1 SUBUNIT ETA (PTHR11353:SF22) | chaperonin |
| <input type="checkbox"/> | 57. | HUMAN HGNC=30646 UniProtKB=Q7KZF4 | Q7KZF4 | Staphylococcal nuclease domain-containing protein 1 SND1 ortholog | STAPHYLOCOCCAL NUCLEASE DOMAIN-CONTAINING PROTEIN 1 (PTHR12302:SF2) | nucleic acid binding transcription cofactor |
| <input type="checkbox"/> | 58. | HUMAN HGNC=15461 UniProtKB=P55145 | P55145 | Mesencephalic astrocyte-derived neurotrophic factor MANF ortholog | MESENCEPHALIC ASTROCYTE-DERIVED NEUROTROPHIC FACTOR (PTHR12990:SF10) | - |
| <input type="checkbox"/> | 59. | HUMAN HGNC=8574 UniProtKB=P43034 | P43034 | Platelet-activating factor acetylhydrolase IB subunit alpha PAFAH1B1 ortholog | PLATELET-ACTIVATING FACTOR ACETYLHYDROLASE IB SUBUNIT ALPHA (PTHR44129:SF6) | - |
| <input type="checkbox"/> | 60. | HUMAN HGNC=9785 UniProtKB=P51148 | P51148 | Ras-related protein Rab-5C RAB5C ortholog | RAS-RELATED PROTEIN RAB-5C (PTHR24073:SF366) | - |
| <input type="checkbox"/> | 61. | HUMAN HGNC=16991 UniProtKB=Q07065 | Q07065 | Cytoskeleton-associated protein 4 CKAP4 ortholog | CYTOSKELETON-ASSOCIATED PROTEIN 4 (PTHR45161:SF1) | - |
| <input type="checkbox"/> | 62. | HUMAN HGNC=30688 UniProtKB=Q86VP6 | Q86VP6 | Cullin-associated NEDD8-dissociated protein 1 CAND1 ortholog | CULLIN-ASSOCIATED NEDD8-DISSOCIATED PROTEIN 1 (PTHR12696:SF1) | transcription factor |
| <input type="checkbox"/> | 63. | HUMAN HGNC=16931 UniProtKB=Q9Y4L1 | Q9Y4L1 | Hypoxia up-regulated protein 1 HYOU1 ortholog | HYPOXIA UP-REGULATED PROTEIN 1 (PTHR45639:SF3) | - |

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